

# Subpart 1

You **may not** use a calculator in Subpart 1 of this test booklet.

You may use this test booklet for scratch paper or to make notes, but you must mark your answers on your answer document.

1. Which **two** expressions are equal to 900?

- A.  $0.9 \times 10^2$
- B.  $0.9 \times 10^3$
- C.  $90 \div 10^2$
- D.  $90,000 \div 10^3$
- E.  $90,000 \div 10^2$

2. Where should the parentheses be placed to make the equation true?

$$36 \div 9 - 5 + 4 - 8 = 5$$

- A.  $(36 \div 9) - 5 + 4 - 8 = 5$
- B.  $36 \div 9 - 5 + (4 - 8) = 5$
- C.  $36 \div (9 - 5) + 4 - 8 = 5$
- D.  $(36 \div 9 - 5 + 4 - 8) = 5$

3. For which of the expressions will the product be less than both factors?

- A.  $\frac{2}{3} \times \frac{1}{5}$
- B.  $\frac{8}{6} \times \frac{9}{7}$
- C.  $\frac{4}{10} \times 5$
- D.  $3 \times 1$

4. Hailey built a sandbox that has a length of  $\frac{5}{8}$  yard and a width of 4 yards. What is the area of the sandbox?
- A.  $4\frac{5}{8}$  yards
  - B.  $3\frac{3}{8}$  yards
  - C. 10 square yards
  - D.  $2\frac{1}{2}$  square yards
5. Six girls share eight pounds of chocolate equally. How much chocolate does each girl get?
- A.  $\frac{6}{8}$  pound
  - B.  $1\frac{1}{3}$  pounds
  - C.  $1\frac{3}{6}$  pounds
  - D.  $\frac{1}{3}$  pound

6. Danica mixed  $6\frac{2}{3}$  cups of pineapple juice with  $5\frac{4}{5}$  cups of mango juice. How many cups of juice did Danica have after mixing the juices?

A.  $11\frac{6}{8}$

B.  $1\frac{2}{15}$

C.  $\frac{13}{15}$

D.  $12\frac{7}{15}$

SAMPLE

# Subpart 2

You **may** use a calculator in Subpart 2 of this test booklet.

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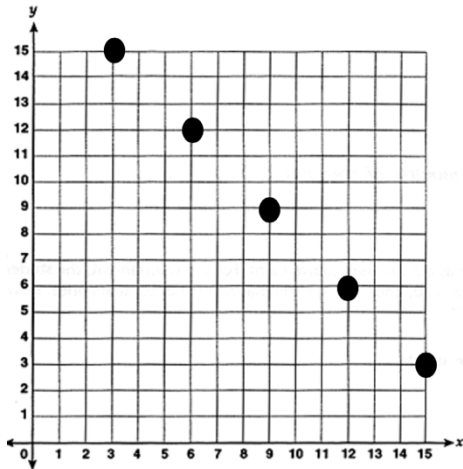
7. Study the patterns.

Pattern X: 15, 12, 9, 6, 3

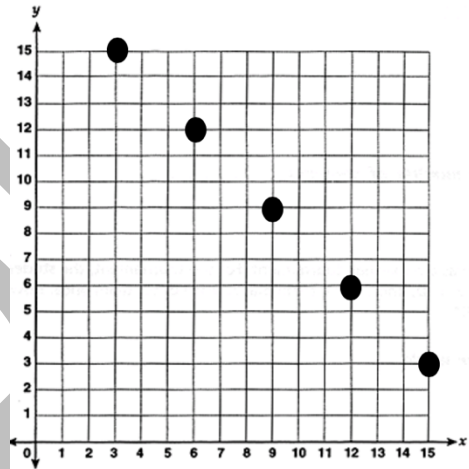
Pattern Y: 3, 6, 9, 12, 15

Which set of ordered pairs and graph match the patterns.

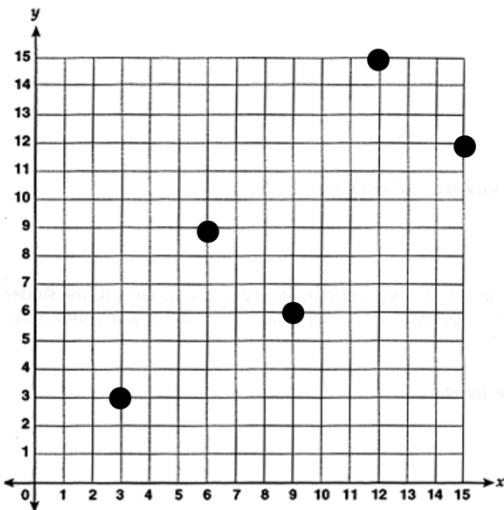
A. (15, 3) (12, 6) (9, 9) (6, 12) (3, 15)



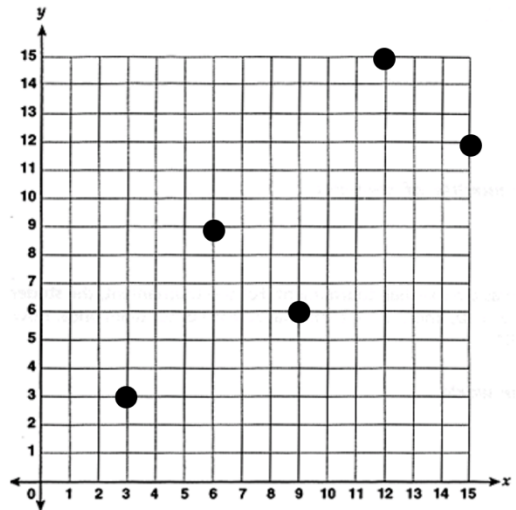
C. (15, 12) (9, 6) (3, 3) (6, 9) (12, 15)



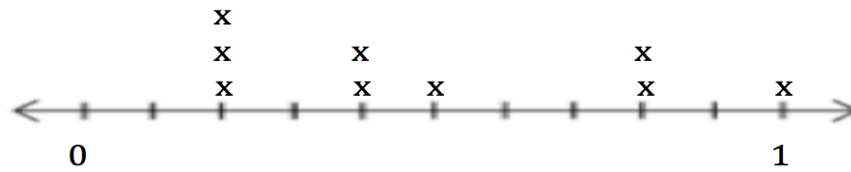
B. (15, 3) (12, 6) (9, 9) (6, 12) (3, 15)



D. (15, 12) (9, 6) (3, 3) (6, 9) (12, 15)

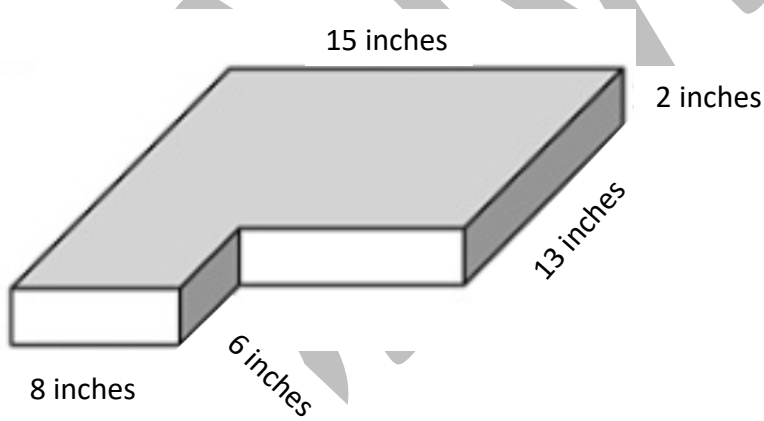


8. Jordan bought 7 pizzas for her party. The line plot shows the amount of pizza that each guest ate.



How much pizza did Jordan have left?

- A.  $4\frac{1}{2}$  pizzas  
B.  $1\frac{1}{2}$  pizzas  
C.  $2\frac{1}{2}$  pizzas  
D. 6 pizzas
9. Find the volume of the figure.



- A. 486 cubic inches  
B. 438 cubic inches  
C. 243 cubic inches  
D. 30 cubic inches

# Subpart 3

You **may** use a calculator in Subpart 3 of this test booklet.

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10. Samantha needs 8 gallons of water to fill her fish tank. She bought a case of 46 20-ounce bottles of water. How many more ounces of water does Samantha need?

- A. 920
- B. 1,024
- C. 104
- D. 160

11. Which statement is true?

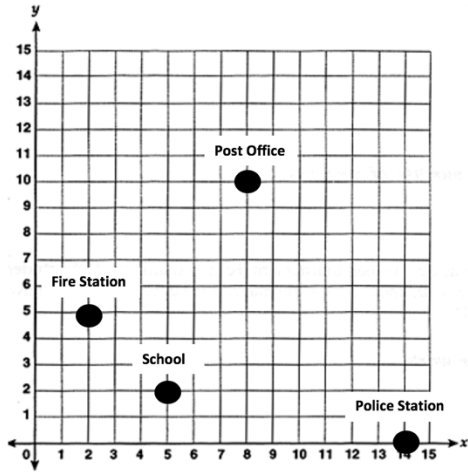
A.  $3 \times 10^3 + 6 \times 10^2 + 9 \times 1 + 7 \times \frac{1}{100} = 369.7$

B.  $3 \times 10^3 + 6 \times 10^2 + 9 \times 1 + 7 \times \frac{1}{100} < \text{three thousand six hundred ninety}$

C.  $3 \times 10^3 + 6 \times 10^2 + 9 \times 1 + 7 \times \frac{1}{100} > \text{twenty thousand}$

D.  $3 \times 10^3 + 6 \times 10^2 + 9 \times 1 + 7 \times \frac{1}{100} < 9 \times 10^2 + 6 \times 10 + 9 \times 1 + 3 \times \frac{1}{10} + 4 \times \frac{1}{100}$

12. Study the coordinate plane.



What is located at (14, 0)?

- A. Fire Station
- B. Post Office
- C. School
- D. Police Station